

AMENDMENTS TO THE SPECIFICATION

Please replace the Paragraph beginning on Line 6, Page 11, with the following paragraph rewritten in amendment format:

According to a ninth aspect of the present invention, the mobile body motion calculation method of the eighth aspect is provided, in which, in the second motion calculation step, the evaluation is performed using the corresponding static point ratio which is the ratio of the corresponding static points.

Please replace the Paragraph beginning on Line 4, Page 20, with the following paragraph rewritten in amendment format:

Here, the corresponding static point ratio calculation section **115** outputs a predetermined value (e.g., 0.5) as the corresponding static point ratio R . The corresponding static point ratio R of 0.5 means that it is predicted “50% of n corresponding points calculated by the corresponding point calculation section **101** are corresponding point(s) which are static and have a correct correspondence relationship”. For example, a corresponding static point ratio is previously measured a plurality of times in a traveling situation similar to that of FIG. 1, and a minimum value of the measured ratios may be used as the predetermined value. Note that the corresponding static point ratio calculation section **115** also has a function of newly calculating the corresponding static point ratio R as described below.

Please replace the Paragraph beginning on Line 16, Page 29 with the following paragraph rewritten in amendment format:

In contrast to this, in the first embodiment, a second motion Mb is calculated using a search method where a first motion Ma is used as an initial value and the (nxR) smallest evaluation value is used as a reference. In general, when the evaluation function is smooth between the initial value to a true value (or a best value), the true value can be obtained using the search method. The evaluation value used in the first embodiment satisfies the above-described conditions if it is close to the true value. Therefore, for example, even when an actual road surface does not match a predetermined plane expression so that the first motion Ma contains an error, the second motion calculation section ~~102~~ 103 can calculate the second motion Mb having a small error.

Please replace the Paragraph beginning on Line 26, Page 32, and continuing through Line 6, Page 33, with the following paragraph rewritten in amendment format:

For example, the corresponding static point calculation ratio section 115 evaluates the first motion Ma calculated by the first motion calculation section 102 with respect to n corresponding points using the above-described (Expression 11) and (Expression 12). Thereafter, a ratio of corresponding point(s) whose evaluation value Ei is smaller than or equal to a predetermined threshold among the n corresponding points is calculated, and is stored as a new corresponding static point ratio. When the next motion calculation is executed, the corresponding static point

ratio thus stored is output. Subsequently, by repeating a similar process successively, the corresponding static point ratio is updated.

Please replace the paragraph beginning on Line 9, Page 41, with the following paragraph rewritten in amendment format:

An operation of a navigation system of FIG. 16 will be described. It is assumed that a vehicle is currently located outdoors and can receive a radio wave from a satellite, and the GPS function is effective. In this case, the positional information obtaining section 131 outputs positional information obtained by the GPS function. The positional information calculation section 132 receives the positional information received from the positional information obtaining section 131 and outputs the positional information without modification as a current location, and also temporarily stores the positional information. The image synthesis section 133 receives the current location from the positional information calculation section 132, reads map information about a surrounding of the current location which is stored in the map information storage ~~means~~ section 134, and converts the map information to a map image, which is in turn output. The map image is displayed on the display 122.

Please replace the Paragraph beginning on Line 25, Page 41, and continuing through Line 10, Page 42, with the following paragraph rewritten in amendment format:

Next, it is assumed that the vehicle is moved by manipulation of the driver to a place, such as an indoor parking lot or the like, where a radio wave cannot be received from a satellite and positional information cannot be obtained by the GPS function. In this case, the positional information obtaining section **131** outputs information indicating that the GPS function is ineffective. When receiving this information, the positional information calculation section **132** integrates a mobile body motion output from the mobile body motion calculation apparatus **100** with the current location stored therein to output and temporarily store a resultant new current location. The image synthesis section **133** operates in a manner similar to when the GPS function is effective, i.e., receives a current location from the positional information calculation section **132**, reads map information about a surrounding of the current location, which is stored in the map information storage ~~means~~ section **134**, and converts the map information to a map image, which is in turn output. The map image is displayed on the display **122**.